RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	10/560.322
Source:	IFWP.
Date Processed by STIC:	. /2/6/06

ENTERED



IFWP

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/560,322

DATE: 12/06/2006

TIME: 09:31:03

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Output Set: N:\CRF4\12062006\J560322.raw

```
4 <110> APPLICANT: Baumgarten, Birgit
              Jones, Carol Elizabeth
             Ludwig, Marie-Gabrielle
      6
             Martiny-Baron, Georg
              Seuwen, Klaus
              Wolf, Romain
     10
              Wyder, Lorenza
              Suply, Thomas
     11
     13 <120> TITLE OF INVENTION: PROTON-SENSING G-PROTEIN COUPLED
             RECEPTORS AND DNA SEQUENCES THEREOF
     14
     17 <130> FILE REFERENCE: DC-4-33201A
     19 <140> CURRENT APPLICATION NUMBER: US 10/560,322
C--> 20 <141> CURRENT FILING DATE: 2005-12-09
     22 <150> PRIOR APPLICATION NUMBER: PCT/EP2004/006625
     23 <151> PRIOR FILING DATE: 2004-06-18
     25 <150> PRIOR APPLICATION NUMBER: 60/499,549
     26 <151> PRIOR FILING DATE: 2003-09-02
     28 <150> PRIOR APPLICATION NUMBER: 60.480,245
     29 <151> PRIOR FILING DATE: 2003-06-20
     31 <160> NUMBER OF SEQ ID NOS: 6
     33 <170> SOFTWARE: FastSEQ for Windows Version 4.0
     35 <210> SEQ ID NO: 1
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     37 <212> TYPE: PRT
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     43 His Ile Thr His Gln Thr Leu Ala Pro Val Val Tyr Val Thr Val Leu
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    45 Val Val Gly Phe Pro Ala Asn Cys Leu Ser Leu Tyr Phe Gly Tyr Leu
    46
                35
                                    40
    47 Gln Ile Lys Ala Arg Asn Glu Leu Gly Val Tyr Leu Cys Asn Leu Thr
    48
            50
                                55
    49 Val Ala Asp Leu Phe Tyr Ile Cys Ser Leu Pro Phe Trp Leu Gln Tyr
     50 65
                            70
                                                                     80
    51 Val Leu Gln His Asp Asn Trp Ser His Gly Asp Leu Ser Cys Gln Val
    52
                                                                 95
    53 Cys Gly Ile Leu Leu Tyr Glu Asn Ile Tyr Ile Ser Val Gly Phe Leu
     54
                    100
                                         105
                                                             110
    55 Cys Cys Ile Ser Val Asp Arg Tyr Leu Ala Val Ala His Pro Phe Arg
    56
                115
                                    120
                                                         125
    57 Phe His Gln Phe Arg Thr Leu Lys Ala Ala Val Gly Val Ser Val Val
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/560,322

DATE: 12/06/2006

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Output Set: N:\CRF4\12062006\J560322.raw

58		130					135					140				
	Tle		Δla	Tvs	Glu	T.e.i		Thr	Ser	Tle	ጥvr		T.e.ii	Met	His	Glu
	145		1114		Olu	150		1111	5 01	44	155	1110	1 00			160
		Val	Tle	Glu	Asp		Asn	Gln	His	Ara		Cvs	Phe	Glu	His	
62	014	• • • •	110	Olu	165	014	11011	О ДД	****	170	704	O _I D		4	175	- 1
	Pro	Tle	Gln	Δla		Gln	Ara	Ala	Tle		ጥvr	Tvr	Ara	Phe		Val
64		110	Q111	180	1-1	Q 111	9	1114	185	11011	-1-	- 7 -	9	190	100	V W.Z
	G] v	Phe	T.e11		Pro	Tle	Cvs	Leu		Len	Δla	Ser	Tvr		Glv	Tle
66	OLY	1110	195		110	110	CyD	200	шсц	ЦСС	1124	001	205	01	O ₁	110
	Ĭ.eu	Δτα		Val	Ara	Ara	Ser	His	Glv	Thr	Gln	Lvs		Ara	Lvs	Asp
68	1 00	210	1114	****	9	9	215	1120	Ory	****	O 211	220		3	- 10	TIOP
	Gln		Gln	Ara	T _i en	Val		Ser	Thr	Val	Val		Phe	Len	Δla	Cvs
	225	110	0211	3	LCu	230				VUL	235	<i></i>	1110	Lou		240
		T.e.11	Pro	ጥንታዮ	His		T.en	Leu	T.e.i	Val	_	Ser	Val	Trn	Glu	
72	TILC	Lea	110	1 y 1	245	val	neu	ПСС	LCu	250	n- 9	DCI	val	115	255	mia
	Sar	Cve	Δen	Dhe		Lve	G] v	Val	Dhe	Ĩ	בומ	ጥኒንን	Hic	Dhe		T.eu
74	261	Cys	Ash	260	AIU	цуз	Gry	vai	265	TOIL	AIU	1 <i>y</i> 1	1113	270	DCI	ncu
	T.011	T.011	ሞኮኍ		Dhe	λen	Cvc	Val		Acn	Dro	17 - 1	T.A11		Cve	Dhe
76	пец	пеи	275	PCT	FIIC	MSII	Cys	280	Ala	MSP	FIO	vaı	285	тут	Cys	FIIC
	T ₌ T	Sar		ጥኮャ	ጥh _Y	Wie	λτα	Asp	T.611	בומ	Ara	T. - 11		G3 w	Δla	Cve
78	vai	290	GIU	IIII	TIIL	1113	295	чэр	ЦСU	AIG	rry	300	n y	Gry	AIU	Cys
	T. - 11		Dhe	T. - 311	Thr	Cve		Arg	Thr	Glv	Δra		Δrα	Glu	Δla	ጥህን
	305	AIQ	FIIC	пси	TILL	310	DCI	Arg	1111	Gry	315	AIG	m 9	GIU	niu	320
		T. - 11	Glw	בומ	Dro		בומ	Ser	Glv	Taye		G] v	Δla	Gln	Glv	
82	110	пси	Gry	AIG	325	Giu	AIG	DCI	Gry	330	DCI	Ory	AIU	OIII	335	Giu
	Glu	Pro	Glu	T.011		ሞከተ	Taye	Leu	Hic		Δla	Phe	Gln	Thr		Agn
84	OLU	110	GIU	340	DCu	T + * T	מעב	DCU	345		1114	1110	Q111	350	110	11011
	Ser	Pro	Glv		Glv	Glv	Phe	Pro		Glv	Ara	T.eu	Δla	550		
86			355	U CI	Q-1	O-1	1110	360			9		365			
	<210)> SI		ON C	. 2			500					505			
	<211		-													
	<212															
					Art	ifici	ial 9	Seque	nce							
	<220						LOL L	Jegac								
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	<400						<u></u>	, , , ,	, (10)	J	<i></i>		July 1	, , , , , , , , , , , , , , , , , , , ,		
						Thr	Thr	His	Ara	Asp	Len	Ala	Ara	Leu	Ara	Glv
99	1	1110	1 W 1	JÇI	5	1111	****		9	10		1114	5		15	
	2 <21	105 9	SEO 1	ות מז	_					10					10	
	3 <21		_													
	1 <21															
	5 <2]					sani	iens									
	7 <40					bap.										
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109		- 01]	4 4 1 1 2 1		5 1111	1		. UI	- Cy a	10	. vu.	113		;	15	
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113		- 1111	35	· Cyr	י דוב ר	, AIC	י אוכר	40	, wrc	~ ~346	~ T Y J	· AL	45	. vu.	- 011	· OIII
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RAW SEQUENCE LISTING DATE: 12/06/2006
PATENT APPLICATION: US/10/560,322 TIME: 09:31:03

Input Set : A:\SEQLIST.TXT

Output Set: N:\CRF4\12062006\J560322.raw

114 Arg Asn Gln Leu Gly Val Tyr Leu Met Asn Leu Ser Ile Ala Asp Leu 116 Leu Tyr Ile Cys Thr Leu Pro Leu Trp Val Asp Tyr Phe Leu His His 117 65 118 Asp Asn Trp Ile His Gly Pro Gly Ser Cys Lys Leu Pro Gly Phe Ile 120 Phe Tyr Thr Asn Ile Tyr Ile Ser Ile Ala Phe Leu Cys Cys Ile Ser 122 Val Asp Arg Tyr Leu Ala Val Ala His Pro Leu Arg Phe Ala Arg Leu 124 Arg Arg Val Lys Thr Ala Val Ala Val Ser Ser Val Val Trp Ala Thr 126 Glu Leu Gly Ala Asn Ser Ala Pro Leu Phe His Asp Glu Leu Phe Arg 127 145 128 Asp Arg Tyr Asn His Thr Phe Cys Phe Glu Lys Phe Pro Met Glu Gly 130 Trp Val Ala Trp Met Asn Leu Tyr Arg Val Phe Val Gly Phe Leu Phe 132 Pro Trp Ala Leu Met Leu Leu Ser Tyr Arg Gly Ile Leu Arg Ala Val 134 Arg Gly Ser Val Ser Thr Glu Arg Gln Glu Lys Ala Lys Ile Lys Arg 136 Leu Ala Leu Ser Leu Ile Ala Ile Val Leu Val Cys Phe Ala Pro Tyr 137 225 138 His Val Leu Leu Leu Ser Arg Ser Ala Ile Tyr Leu Gly Arg Pro Trp 140 Asp Cys Gly Phe Glu Glu Arg Val Phe Ser Ala Tyr His Ser Ser Leu 142 Ala Phe Thr Ser Leu Asn Cys Val Ala Asp Pro Ile Leu Tyr Cys Leu 144 Val Asn Glu Gly Ala Arg Ser Asp Val Ala Lys Ala Leu His Asn Leu 146 Leu Arg Phe Leu Ala Ser Asp Lys Pro Gln Glu Met Ala Asn Ala Ser 147 305 148 Leu Thr Leu Glu Thr Pro Leu Thr Ser Lys Arg Asn Ser Thr Ala Lys 150 Ala Met Thr Gly Ser Trp Ala Ala Thr Pro Pro Ser Glu Gly Asp Gln 152 Val Gln Leu Lys Met Leu Pro Pro Ala Gln 156 <210> SEQ ID NO: 4 157 <211> LENGTH: 337 158 <212> TYPE: PRT 159 <213> ORGANISM: H. sapiens 161 <400> SEQUENCE: 4 162 Met Asn Ser Thr Cys Ile Glu Glu Gln His Asp Leu Asp His Tyr Leu 163 1 164 Phe Pro Ile Val Tyr Ile Phe Val Ile Ile Val Ser Ile Pro Ala Asn

RAW SEQUENCE LISTING DATE: 12/06/2006
PATENT APPLICATION: US/10/560,322 TIME: 09:31:03

Input Set : A:\SEQLIST.TXT

Output Set: N:\CRF4\12062006\J560322.raw

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166 Ile Gly Ser Leu Cys Val Ser Phe Leu Gln Pro Lys Lys Glu Ser Glu
167
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168 Leu Gly Ile Tyr Leu Phe Ser Leu Ser Leu Ser Asp Leu Leu Tyr Ala
169
        50
                             55
170 Leu Thr Leu Pro Leu Trp Ile Asp Tyr Thr Trp Asn Lys Asp Asn Thr
171 65
                        70
                                             75
                                                                  80
172 Thr Phe Ser Pro Ala Leu Cys Lys Gly Ser Ala Phe Leu Met Tyr Met
173
                    85
                                         90
                                                              95
174 Leu Phe Tyr Ser Ser Thr Ala Phe Leu Thr Cys Ile Ala Val Asp Arg
175
                100
                                     105
                                                          110
176 Tyr Leu Ala Val Val Tyr Pro Leu Lys Phe Phe Leu Arg Thr Arg
                                 120
                                                      125
177
            115
178 Arg Ile Ala Leu Met Val Ser Leu Ser Ile Trp Ile Leu Glu Thr Ile
        130
                            135
179
                                                 140
180 Phe Asn Ala Val Met Leu Trp Glu Asp Glu Thr Val Val Glu Tyr Cys
181 145
                                             155
                        150
182 Asp Ala Glu Lys Ser Asn Phe Thr Leu Cys Tyr Asp Lys Tyr Pro Leu
183
                    165
                                                              175
                                         170
184 Glu Lys Trp Glu Ile Asn Leu Asn Leu Phe Arg Thr Cys Thr Gly Tyr
185
                180
                                                          190
                                     185
186 Ala Ile Pro Leu Val Thr Ile Leu Ile Cys Asn Arg Lys Val Tyr Gln
187
            195
                                 200
                                                      205
188 Ala Val Arg His Asn Lys Ala Thr Glu Asn Lys Glu Lys Lys Arg Ile
        210
189
                             215
                                                 220
190 Ile Lys Leu Leu Val Ser Ile Thr Val Thr Phe Val Leu Cys Phe Thr
191 225
                        230
                                             235
                                                                  240
192 Pro Phe His Val Met Leu Leu Ile Arg Cys Ile Leu Glu His Ala Val
193
                    245
194 Asn Phe Glu Asp His Ser Asn Ser Gly Lys Arg Thr Tyr Thr Met Tyr
195
                260
                                     265
                                                          270
196 Arg Ile Thr Val Ala Leu Thr Ser Leu Asn Cys Val Ala Asp Pro Ile
197
            275
                                 280
                                                      285
198 Leu Tyr Cys Phe Val Thr Glu Thr Gly Arg Tyr Asp Met Trp Asn Ile
                            295
199
        290
                                                  300
200 Leu Lys Phe Cys Thr Gly Arg Cys Asn Thr Ser Gln Arg Gln Arg Lys
201 305
                        310
                                             315
202 Arg Ile Leu Ser Val Ser Thr Lys Asp Thr Met Glu Leu Glu Val Leu
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204 Glu
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211 <213> ORGANISM: Artificial Sequence
213 <220> FEATURE:
214 <223> OTHER INFORMATION: Peptide used for antibody production
216 <400> SEQUENCE: 5
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218 1
                     5
                                         10
                                                              15
219 Ser Asp Lys
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/560,322

DATE: 12/06/2006

TIME: 09:31:03

Input Set : A:\SEQLIST.TXT

Output Set: N:\CRF4\12062006\J560322.raw

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233 1 5 10 15
234 Phe Pro Met Glu
235 20

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/560,322

DATE: 12/06/2006

TIME: 09:31:04

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